

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	09/815305	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 14:44
S3	1	("5772771").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/10 14:45
S5	51	("3717439"   "4716852"   "4817558"   "5069930"   "5105761"   "5192370"   "5250092"   "5346578"   "5368646"   "5522934"   "5525159"   "5532190"   "5554226"   "5614055"   "5620523").PN. OR ("5772771"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/04 12:09

## EAST Search History

S7	158	("20010017109"   "20010042827"   "20020047543"   "20030013260"   "20030029567"   "20030085205"   "20030211705"   "20040036038"   "20040092084"   "20040126993"   "2344138"   "3109100"   "3576685"   "3907616"   "4116791"   "4176003"   "4382099"   "4385946"   "4434036"   "4465529"   "4481229"   "4500563"   "4521441"   "4539217"   "4565588"   "4579618"   "4584026"   "4698104"   "4764394"   "4778561"   "4837172"   "4867859"   "4871421"   "4892753"   "4912065"   "4937205"   "4948458"   "5040046"   "5061838"   "5074456"   "5106827"   "5107201"   "5229305"   "5270250"   "5277751"   "5288650"   "5290382"   "5312778"   "5354381"   "5435881"   "5505780"   "5510011"   "5514603"   "5520209"   "5542559"   "5561072"   "5569363"   "5572038"   "5587038"   "5627435"   "5643838"   "5648701"   "5653811"   "5654043"   "5660895"   "5674321"   "5683517"   "5711812"   "5718798"   "5770982"   "5885358"   "5888413"   "5897713"   "5897752"   "5911832"   "5935077"   "5944942"   "5948168"   "5958140"   "5985742"   "5994207"   "5994236"   "5998933"   "6000360"   "6013567"   "6020592"   "6041735"   "6050218"   "6076483"   "6083324"   "6096661"   "6101971"   "6103599"   "6121161"   "6132552"   "6139697"   "6150628"   "6153524"   "6155090"   "6164241"   "6165376"   "6174450"   "6174743"   "6180496"   "6182604"   "6187110"   "6207005"   "6237527"   "6239553"   "6248642"   "6265328"   "6291313"   "6291939"   "6300643"   "6303519"   "6305316"   "6335536"   "6339297"   "6341574"   "6344404"   "6348126").PN. OR ("6375790"   "6387719"   "6392351"   "6395150"   "6403453"   "6410449"   "6413321"   "6417078"   "6418874"   "6426015"   "6432260"   "6433553"   "6453842"   "6461933"   "6468388"   "6492612"   "6494986"   "6511899"   "6513538"   "6514838"   "6528391"   "6551446"   "6559408"   "6587999"	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/04 12:36
5/7/07 7:32:41 PM	C:\Documents and Settings\margarcia\My Documents\EAST\Workspaces\09815305.wsp					Page 2

## EAST Search History

S6	36	("3840750"   "4268711"   "4786477"   "4788082"   "5178743"   "5630880"   "5772771"   "5792272"   "5811022"   "5824158"   "5885358").PN. OR ("6041735").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/04 12:36
S2	2	("5772771").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 12:46
S9	1	("6321681").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/04 12:50
S8	3	((("5522934") or ("6372084") or ("5614055")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/04 12:50
S4	2	((("5900103") or ("20020011215")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/04 12:52
S10	3882	((118/715) or (156/345.33) or (156/345.34)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/04 12:53
S11	1107	S10 and (ring\$4 annular\$4 annul\$4) with (vapor\$4 gas\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/04 12:54
S13	23	("4037830"   "4484538"   "4529474"   "4543059"   "4653428"   "4803948").PN. OR ("4950156").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/04 13:02
S14	10	("5284519"   "5383970"   "5616208"   "5766342"   "5766682"   "5835677"   "6280793").PN. OR ("6471782").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/04 15:14
S15	10	("4209357"   "4579618"   "4590042"   "5422139"   "5624498"   "5716534"   "5744049"   "5781693").PN. OR ("6537418").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/04 15:20
S16	109	("4298419"   "4316791"   "4352725"   "4411733"   "4464223").PN. OR ("4579618").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/04 15:22

## EAST Search History

S17	30	("4209357"   "4263088"   "4579618"   "4738748"   "4831963"   "4983254"   "5082517"   "5102523"   "5284544"   "5318654"   "5445709"   "5496410"   "5500256").PN. OR ("5614026"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/04 15:40
S19	61	("3705769"   "4792378"   "4825809"   "4948623"   "4970093"   "5000113"   "5082542"   "5085731"   "5098516"   "5112448"   "5156820"   "5231751"   "5268034"   "5294778"   "5312509"   "5312792"   "5354712"   "5453124"   "5464656"   "5547539"   "5554226"   "5595606"   "5624498"   "5674787"   "5695568"   "5708556"   "5723028"   "5730801"   "5736191"   "5747362"   "5763953"   "5789321"   "5817576"   "5843516"   "5846375"   "5852088"   "5855675"   "5856906"   "5859408"   "5860640"   "5866237"   "5880924"   "5891348"   "5891513"   "5916359"   "5928427"   "5936829"   "5948467"   "5956837"   "6015917"   "6073576"   "6077353"   "6162323"   "6190495"   "6190732"   "6268994"   "6274495").PN. OR ("6544341").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/04 15:49

## EAST Search History

S18	61	("3705769"   "4792378"   "4825809"   "4948623"   "4970093"   "5000113"   "5082542"   "5085731"   "5098516"   "5112448"   "5156820"   "5231751"   "5268034"   "5294778"   "5312509"   "5312792"   "5354712"   "5453124"   "5464656"   "5547539"   "5554226"   "5595606"   "5624498"   "5674787"   "5695568"   "5708556"   "5723028"   "5730801"   "5736191"   "5747362"   "5763953"   "5789321"   "5817576"   "5843516"   "5846375"   "5852088"   "5855675"   "5856906"   "5859408"   "5860640"   "5866237"   "5880924"   "5891348"   "5891513"   "5916359"   "5928427"   "5936829"   "5948467"   "5956837"   "6015917"   "6073576"   "6077353"   "6162323"   "6190495"   "6190732"   "6268994"   "6274495").PN. OR ("6544341").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/04 15:49
S20	29	("4615298"   "4624214"   "4808553"   "4828369"   "4960071"   "4988642"   "5110438"   "5124014"   "5284544"   "5385624"   "5423936"   "5472508"   "5512102"   "5728253"   "5780313").PN. OR ("6162323"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/04 15:54
S12	596	S10 and (((ring\$4 annular\$4 annul\$4) with (vapor\$4 gas\$4)) same (exhaust\$4 vent\$4 eliminat\$4 remov\$4 pump\$4 purg\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/04 16:05
S21	180	S10 and (((ring\$4 annular\$4 annul\$4) with (vapor\$4 gas\$4)) with (outlet exhaust\$4 vent\$4 eliminat\$4 remov\$4 pump\$4 purg\$4) with (suppl\$4 source inlet))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/04 16:06
S23	436	(156/345.33).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 16:10

## EAST Search History

S22	23	S21 not S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/04 16:10
S24	339	S23 not S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/04 16:11
S25	173	S24 and (ring\$4 annular\$4 annul\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/04 16:51
L10	19	9 and pump\$4	US-PGPUB; USPAT	OR	ON	2007/05/07 15:57
L9	26	(US-20020011215-\$ or US-20020134507-\$ or US-20030207032-\$ or US-20030056900-\$ or US-20030033979-\$ or US-20070026540-\$).did. or (US-5772771-\$ or US-5900103-\$ or US-6833052-\$ or US-6041735-\$ or US-4579618-\$ or US-4209357-\$ or US-6499425-\$ or US-5102523-\$ or US-6896737-\$ or US-5851294-\$ or US-6162323-\$ or US-6270862-\$ or US-5856240-\$ or US-5614026-\$ or US-6474257-\$ or US-6537418-\$ or US-6544341-\$ or US-5558717-\$ or US-4950156-\$ or US-6372084-\$). did.	US-PGPUB; USPAT	OR	ON	2007/05/07 15:57
L12	5	jp-07263353-\$..did. jp-01274398-\$. did. jp-07122398-\$..did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 16:33
L13	1	1989-367071.NRAN.	DERWENT	OR	ON	2007/05/07 16:36
L11	2	jp-11067737-\$..did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 18:20